Radial Seated Diaphragm Valve

Sanitary Process Components

Tank Bottom Valves

The series VFA was designed for easy mounting to tank bottoms used for hygienic processes. The VFA Tank Bottom Valve is ideal for the pharmaceutical, biotech, cosmetic, food and dairy applications.

The valve assembly consists of three components:

Actuator – available in manual or pneumatic

Radial Diaphragm – Silicone or TFM 1600 PTFE

Valve Body – machined from AISI 316L SS

The VFA design and materials of construction complies with ASME BPE, cGMP, US Pharmacopeia, and FDA. The VFA Tank Bottom Valve assures complete drainability and zero dead leg. The two models available are:

VFA-10°S

 10° angled flush weld to tank bottom

• VFA-10°TK

10° flanged with removable valve body

Both models are designed to prevent deformity caused by welding.

Both models are available with manual or pneumatic actuation.

Both actuation types are available in autoclavable plastic or stainless steel

Finished grade for wetted parts Ra<0.4 Micron (220 Grit)

The 45° angled outlet port is available in weld end or sanitary clamp. Optional CIP/SIP connection port or valve is available upon request.

TFM[™] 1600 PTFE Diaphragms

PTFE is one of the purest fluoropolymers available today with virtually zero extractables or leachables. TFM 1600 PTFE is a modified polytetrafluoroethylene (PTFE) that maintains the exceptional chemical and heat resistance properties of conventional PTFE, but has a significantly lower viscosity giving better fusion during sintering resultant smoother surfaces.

Benefits

- Improved resistance to creep and lower
- deformation under load reduced cold flow
- Reduced permeability
 Denser polymor struct
- Denser polymer structure with fewer voids and trapped air reduces the risk of trapped contaminants
- Smooth, pore free surface allows for easier cleaning
- Lower melt viscosity and better fusion during sintering
 Use the sile stress with
- Higher tensile strength
 Inground working life of the
- Increased working life of the diaphragm in process involving frequent steam sterilization

The result of this innovative formulation is a diaphragm that can stay in service up to four times longer than conventional diaphragms. Ultimately, less time will be spent routinely replacing diaphragm. Consequently, there will be less equipment down time.

Flush – Mounted Tank bottom valve No sump therefore No problem associated with static material and cleaning or sterilizing



Optional CIP/SIP connection port

STD. Diaphragm Tank bottom valve



sterilizing efficiency

Area of static material which influences efficient mixing and product quality/integrity

Discharge

10° angled butt-weld

SIZE: 3/4" – 4"

DIAPHRAGM: Silicone TFM 1600 PTFE

Meets FDA and US Pharmacopia norms.

FINISH: wetted parts Ra<0.4 Micron

Design Pressure min/max: -1/+6 bar (g)

Design Temperature range: -10°/+150°C

CE (T 2 GD T 3



VA Valves

The series VA design and materials of construction comply with ASME BPE, cGMP, US Pharmacopeia, and FDA. The VFA Tank Bottom Valve assures complete drain-ability and zero dead leg.

The valve assembly consists of three components:

ACTUATOR – available in manual or pneumatic RADIAL DIAPHRAGM – Silicone or TFM 1600 PTFE VALVE BODY – machined from AISI 316L SS The four models available are:

- VA-90° A 90° radial seat diaphragm valve
- VA-180° A 180° flow through radial seat diaphragm valve
- VA-DV A divert valve with a radial seat diaphragm

• VA-J A jacketed version of VA-90° or VA-180° radial seat diaphragm valve

All models are available with manual or pneumatic actuation.

Both actuation types are available in autoclavable plastic or stainless steel.

Finished grade for wetted parts Ra<0.4 Micron (220 Grit)

Connection ports available in weld end or sanitary clamp.



POSITION INDICATION OPEN/CLOSED



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